

531,263

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
13 May 2004 (13.05.2004)

PCT

(10) International Publication Number
WO 2004/039462 A1

(51) International Patent Classification⁷: **A63B 69/06**,
G06F 17/40, G01S 5/14

(21) International Application Number:
PCT/AU2003/001430

(22) International Filing Date: 31 October 2003 (31.10.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
2002952407 1 November 2002 (01.11.2002) AU
2003903123 23 June 2003 (23.06.2003) AU

(71) Applicant (for all designated States except US): **M.B.T.L. LIMITED** [AU/AU]; 60 William Street, Hawthorn, VIC 3122 (AU).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **GRENFELL**, Ronald [AU/AU]; RMIT., 124 Latrobe Street, Melbourne 3000 (AU). **ZHANG**, Kefei [AU/AU]; RMIT., 124 Latrobe Street, Melbourne 3000 (AU). **MACKINTOSH**, Colin

[AU/AU]; Australian Institute of Sport, Leverrier Crescent, Bruce, ACT 2617 (AU). **JAMES**, Daniel [AU/AU]; Griffith University of Kessels Road, Nathan, QLD 4111 (AU). **DAVEY**, Neil [AU/AU]; Griffith University of Kessels Road, Nathan, QLD 4111 (AU).

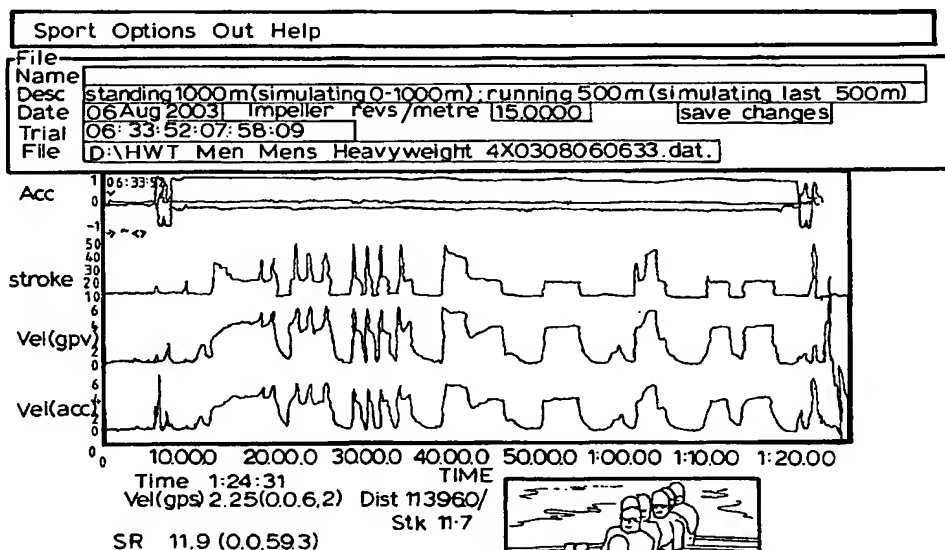
(74) Agent: **MISCHLEWSKI**, Darryl; P.O. Box 1254, Camberwell, VIC 3124 (AU).

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (regional): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: MONITORING SPORTS



(57) Abstract: A data logger for a rowing shell and crew which includes an accelerometer, an impeller or flow sensor to sense velocity, a GPS unit to sense position and velocity, a heart rate monitor, a controller programmed to manipulate the data and provide a display of the heart rate, boat speed, stroke rate etc. The data can be stored or transmitted to a remote computer for use by the coach.

WO 2004/039462 A1



Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.